	Application No.	Applicant(s)
Notice of Allowability	10/076,201	YANG ET AL.
	Examiner	Art Unit
	Brian T. Pendleton	2615
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment on 8/31/06</u> .		
2. The allowed claim(s) is/are <u>1-30</u> .		
<ul> <li>3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> <li>Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.</li> <li>THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> </ul>		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 D Notice of Informat D	4 - 4 A P 0 -
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Divide of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	5. ☐ Notice of Informal Pa 6. ☐ Interview Summary (	· ·
	Paper No./Mail Date	e
<ol> <li>Information Disclosure Statements (PTO/SB/08),</li> <li>Paper No./Mail Date</li> </ol>	7. 🛛 Examiner's Amendm	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statemen	nt of Reasons for Allowance
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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Truong Dinh on November 9, 2006.

The application has been amended as follows:

Please cancel claims 31 and 32.

The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose nor suggest an activity detector configured to receive the first and second signals, to detect for speech activity based on the first and second signals and to provide a control signal indicative of detect speech activity and a controller coupled to the first and second forming units and the activity detector and configured to receive the control signal and to enable the first beam forming unit to adapt during periods of speech activity and to enable the second beam forming unit to adapt during periods of non-speech activity. While Oh et al teach a system comprising an adaptive filer 26 that only adapts to periods of non-speech activity, there is no teaching of adapting a beam forming unit during periods of speech activity. As a result, independent claims 1, 20, and 27 and their dependents are allowed.

Newly cited prior art references Janse, US Patent 5,610,991 and Kellermann, US Patent 5,602,962 are identified because they each disclose a mobile communication device comprising a microphone array and noise suppression unit. However, there is no disclosure of beam forming

units, speech activity detectors, or controllers for controlling the beam forming units based on the detection of speech.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Brian T. Pendleton Primary Examiner Art Unit 2615 222\_\_\_

btp